

ABSTRACT

A method for the separation of benzoporphyrin derivative mono and diacid (BPD-MA, BPD-DA) enantiomers by Laser-Induced Fluorescence Capillary Electrophoresis has been developed. The limits of detection are 2.06×10^{-6} M, and the relative standard deviation for the separation was 2.90% to 4.64%. The BPD enantiomers can be quantitatively determined in the range of 10^{-2} to 10^{-5} mg mL⁻¹. In comparison with HPLC, CE has better resolution and efficiency. This separation method was successfully applied to the BPD enantiomers obtained from a matrix of bovine serum and from liposomally formulated material as well as from studies with rat, dog and human microsomes.

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